

6AN5

Description and Rating

BEAM POWER AMPLIFIER

GENERAL DESCRIPTION

Principal Application: The 6AN5 is a miniature beampower amplifier designed for use as a wide-band radio-frequency or video power amplifier in equip-

Cathode: Coated Unipotential Heater Voltage (A-C or D-C) 6.3 Volts Heater Current 0.45 Ampere Envelope: $T-5\frac{1}{2}$, Glass Base: E7-1, Miniature Button 7-Pin

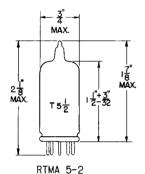
ments with relatively low plate supply voltages. The tube is capable of operation at high plate current levels and exhibits a high transconductance.

Mounting Position:	. Any
Grid I to Plate (Max) 0.07	75 μμ f
Input 9.	.0 μμf
Output 4.	8 44f

PHYSICAL DIMENSIONS

TERMINAL CONNECTIONS

BASING DIAGRAM

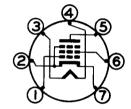


Pin I - Grid Number I

Pin 2 - Cathode and Beam Plates

Pin 3 - Heater Pin 4 - Heater Pin 5 - Plate

Pin 6 - Grid Number 2 (Screen)
Pin 7 - Cathode and Beam Plates



RTMA 7BD BOTTOM VIEW

DESIGN CENTER VALUES: MAXIMUM RATINGS

Plate Voltage	20 300	Volts
Screen Voltage	20 300	Volts
Plate Dissipation 4	.2 1.70	Watts
Screen Dissipation	.4 0.56	Watts
Cathode Current	50 20	Milliamperes
Bulb Temperature at Any Point	40	Centigrade
Grid Number I Circuit Resistance		
With Fixed Bias * 0	.1 0.1	Megohm
With Cathode Bias 0	.1 0.1	Megohm

CLASS A AMPLIFIER CHARACTERISTICS AND TYPICAL OPERATION

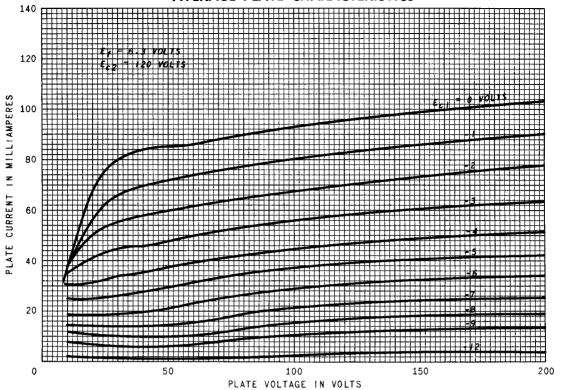
Plate Voltage	VOITS	
Screen Voltage	Volts	
Cathode Bias Resistor	Ohms	
Plate Resistance (Approx)	Ohms	
Transconductance	Micromhos	
Plate Current	Milliampere	s
	Milliampere	

[#] With external shield #316 connected to cathode

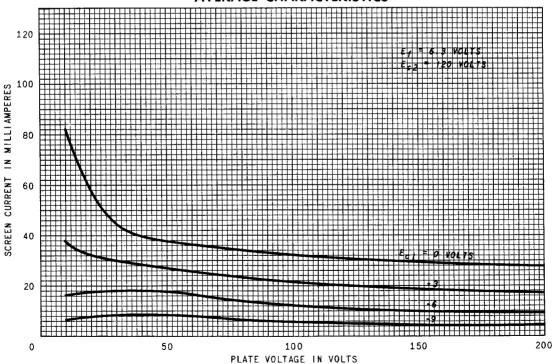
^{*} Fixed bias operation is recommended only when the plate and screen dissipation is less than 70 percent of the design-center maximum ratings.

PAGE 2

AVERAGE PLATE CHARACTERISTICS



AVERAGE CHARACTERISTICS



Tube Department, Electronics Division

